

SEQUENCE LISTING

<110> Jean-Louis RUELLE

<120> BASB019 Proteins and Genes from
Moraxella Catarrhalis, Antigens, Antibodies, and Uses

<130> BM45311

<140> 09/674,779

<141> 2001-01-03

<150> 98096837

<151> 1998-05-06

<160> 4

<170> FastSEQ for Windows Version 4.0

<210> 1

<211> 753

<212> DNA

<213> Moraxella catarrhalis

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gaacatctt ggggtcagat tgtaccaaca ttgcacttgtt atcaagatct caaaaatgg	420
ggcatattgc cagcaaatc ccaaattcgc tcagtttatac gcaatcctga actcaaccaa	480
tgtgctgggtg gtgcagctat gagtaagcat ttgaccaataa gtgccatttg tatttgggtg	540
cctgacccctt aaataaaaag ccaggcactg tatgagcttc aaaaccgcct atgccaatat	600
tggctagagc atggcggaaa ccaaattttt gggctgggtt tatacgcac agggcgatt	660
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<212> PRT

<213> Moraxella catarrhalis

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Leu Val Ala Cys Ser Ala Pro Ile Pro Thr Asn Pro Gln Val Ser Pro	
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Ile Lys Thr Pro Ser Val Leu Ile Thr Lys Asp Lys Ile Gly Asp His	
35 40 45	
His Thr His Glu His Asp Glu Ser Val Ser His Val Gly Leu Gln Ala	

50	55	60
His Phe Glu Thr Trp Leu Gln Met His His Ala Thr Lys Gln Glu Val		
65	70	75 80
Val Arg Tyr Gln Ala Tyr Leu Gln Ser Arg Leu Gly Asn Tyr Leu Pro		
85	90	95
Pro Met Ser Gln Leu Leu Thr Thr Ala Arg Ser Trp Gln Ala Cys Gly		
100	105	110
His Glu Pro Tyr Gln Leu Pro Pro Glu His Leu Trp Gly Gln Ile Val		
115	120	125
Pro Thr Leu His Leu Tyr Gln Asp Leu Lys Ser Arg Gly Ile Leu Pro		
130	135	140
Ala Asn Thr Gln Ile Arg Ser Val Tyr Arg Asn Pro Glu Leu Asn Gln		
145	150	155 160
Cys Ala Gly Gly Ala Ala Met Ser Lys His Leu Thr Asn Ser Ala Ile		
165	170	175
Asp Ile Trp Val Pro Asp Leu Glu Ile Lys Ser Gln Ala Leu Tyr Glu		
180	185	190
Leu Gln Asn Arg Leu Cys Gln Tyr Trp Leu Glu His Gly Glu Asn Gln		
195	200	205
Asn Phe Gly Leu Gly Leu Tyr Ala Thr Gly Ala Ile His Leu Asp Thr		
210	215	220
Gln Gly Phe Arg Lys Trp Gly Ala Gln Phe Ser Glu Thr Asn Ser Ile		
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Cys Arg His Val Leu Pro Lys Asn Lys Leu		
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